

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	2SK066400L
Manufacturer:	Panasonic Electronic Components
Package:	Please confirm with sales
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/panasonic-electronic-components/2sk066400l.html>

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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

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New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

2SK0664 (2SK664)

Silicon N-channel MOSFET

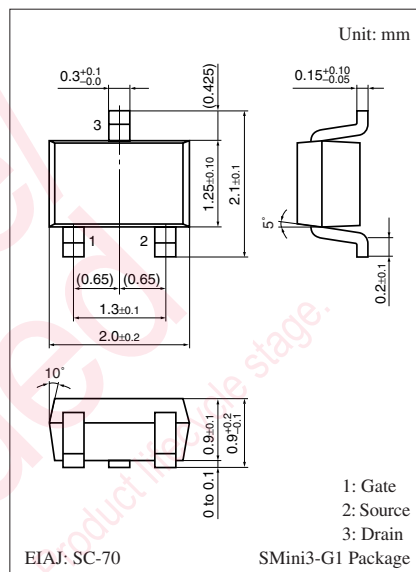
For switching circuits

■ Features

- High-speed switching
- S-mini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing

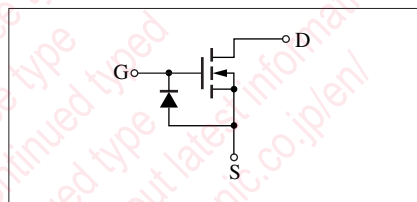
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Drain-source surrender voltage	V_{DSS}	50	V
Gate-source voltage (Drain open)	V_{GSO}	8	V
Drain current	I_D	100	mA
Peak drain current	I_{DP}	200	mA
Power dissipation	P_D	150	mW
Channel temperature	T_{ch}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Marking Symbol: 3N

Internal Connection



■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Drain-source surrender voltage	V_{DSS}	$I_D = 100 \mu\text{A}$, $V_{GS} = 0$	50			V
Drain-source cutoff current	I_{DSS}	$V_{DS} = 10 \text{ V}$, $V_{GS} = 0$			10	μA
Gate-source cutoff current	I_{GSS}	$V_{GS} = 8 \text{ V}$, $V_{DS} = 0$			50	nA
Gate threshold voltage	V_{th}	$I_D = 100 \mu\text{A}$, $V_{DS} = V_{GS}$	1.5		3.5	V
Forward transfer admittance	$ Y_{fs} $	$I_D = 20 \text{ mA}$, $V_{DS} = 5 \text{ V}$, $f = 1 \text{ kHz}$	20			mS
Drain-source ON resistance	$R_{DS(on)}$	$I_D = 20 \text{ mA}$, $V_{GS} = 5 \text{ V}$			50	Ω
Short-circuit forward transfer capacitance (Common source)	C_{iss}	$V_{DS} = 5 \text{ V}$, $V_{GS} = 0$, $f = 1 \text{ MHz}$			15	pF
Short-circuit output capacitance (Common source)	C_{oss}				5.0	pF
Reverse transfer capacitance (Common source)	C_{rss}				1.0	pF
Turn-on time ^{*1, 2}	t_{on}	$V_{DD} = 5 \text{ V}$, $V_{GS} = 0 \text{ V} \sim 5 \text{ V}$, $R_L = 200 \Omega$		10		ns
Turn-off time ^{*1, 2}	t_{off}	$V_{DD} = 5 \text{ V}$, $V_{GS} = 5 \text{ V} \sim 0 \text{ V}$, $R_L = 200 \Omega$		20		ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

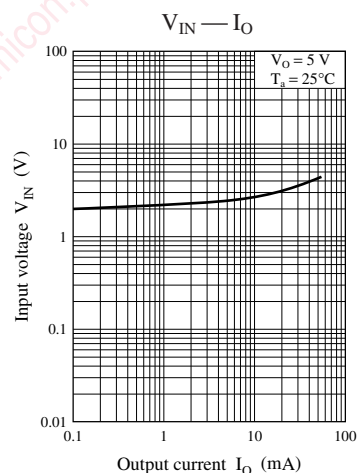
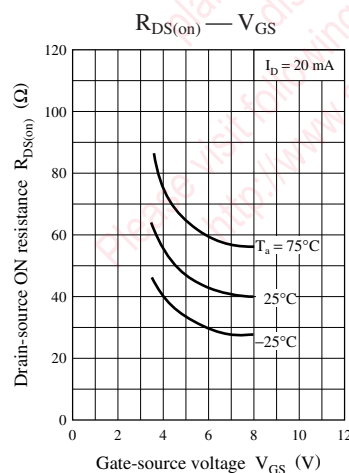
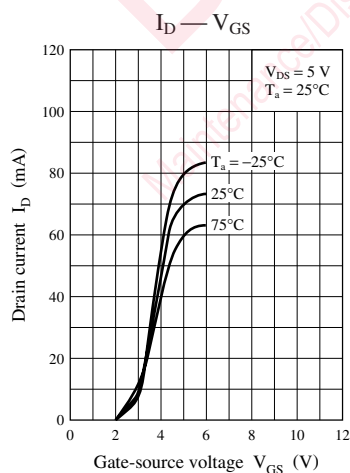
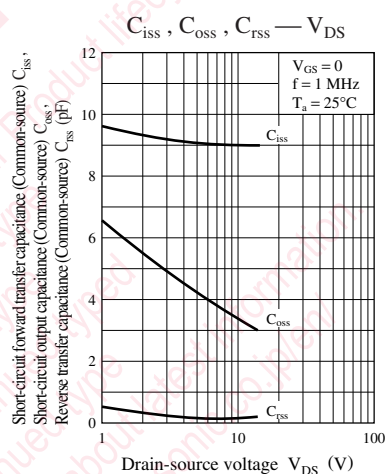
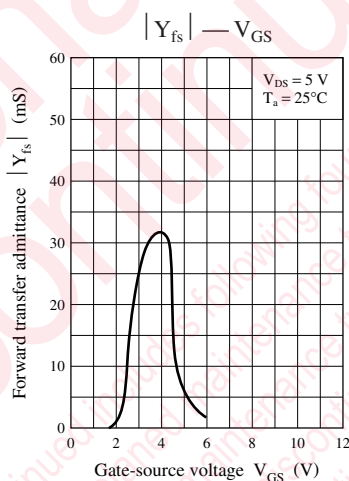
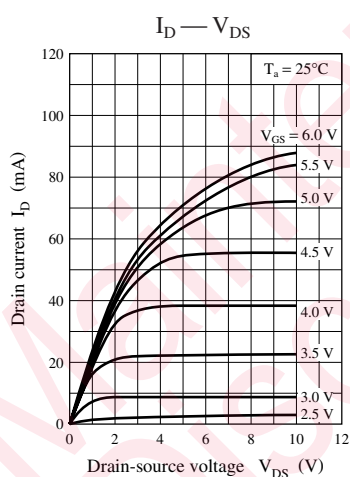
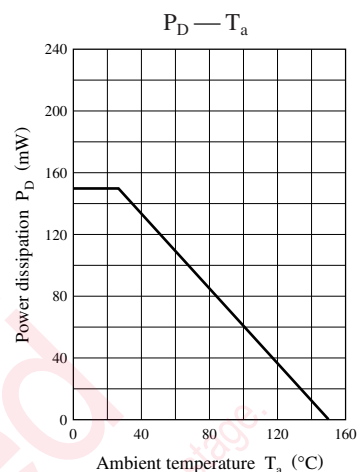
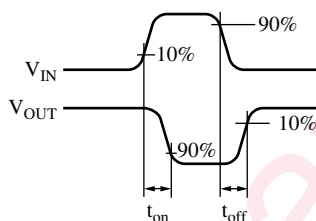
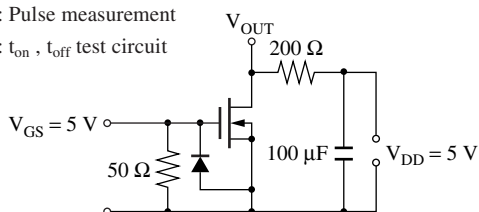
2. Observe precautions for handling. Electrostatic sensitive devices.

Note) The part number in the parenthesis shows conventional part number.

■ Electrical Characteristics (continue)

(Note) (continue)

3. *1: Pulse measurement

*2: t_{on} , t_{off} test circuit

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